

## Report of Analysis

Submission: 2004-005091-NYHB  
 Customer: Sprague  
 Terminal: SPRAGUE RENSSELEAR, NY  
 Vessel: KTC 90  
 Reference:  
 Purchase Order:  
 Date Received: 12-Dec-04  
 Date Analyzed: 12-Dec-04  
 Date Reported: 13-Dec-04

SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS REPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE. THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED ON THE CERTIFICATE. THE INSPECTION REPORT IS NOT TO BE USED FOR ANY OTHER PURPOSE. SPRAGUE DISCLAIMS ANY LIABILITY FOR THE PRODUCT AFTER DELIVERY BY SPRAGUE TO CUSTOMER. SPRAGUE DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR AN INTENDED USE EXCEPT AS MAY BE SPECIFICALLY SET FORTH IN WRITING IN ANY CONTRACT OR TERMS OF SALE BETWEEN SPRAGUE AND A BUYER OF PRODUCT. SPRAGUE ASSUMES NO LIABILITY FOR CLAIMS OR LOSSES THAT MAY ARISE FROM CUSTOMER'S USE OF THIS INSPECTION REPORT/ANALYSIS.

Lab Reference : 2004-005091-NYHB-001			
Sample Designated As : Shore Tank 15 After Disch Upper NO. 6 FUEL OIL			
Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	11.2	deg API
D4294	Sulfur	1.39	Wt %

Lab Reference : 2004-005091-NYHB-002			
Sample Designated As : Shore Tank 15 After Disch Middle NO. 6 FUEL OIL			
Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	10.7	deg API
D4294	Sulfur	1.47	Wt %

Lab Reference : 2004-005091-NYHB-003			
Sample Designated As : Shore Tank 15 After Disch Lower NO. 6 FUEL OIL			
Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	10.7	deg API
D4294	Sulfur	1.45	Wt %

Lab Reference : 2004-005091-NYHB-004			
Sample Designated As : Shore Tank 15 After Disch Running NO. 6 FUEL OIL			
Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	10.9	deg API
D4294	Sulfur	1.44	Wt %

Lab Reference : 2004-005091-NYHB-018			
Sample Designated As : Shore Tank 15 After Disch Equal UML Composite NO. 6 FUEL OIL			
Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	10.9	deg API

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Lab Reference : 2004-005091-NYHB-018			
Sample Designated As : Shore Tank 15 After Disch Equal UML Composite NO. 6 FUEL OIL			
Method	Test	Results	Units
D93 method B	Corrected Flash Point	189	deg F
D445 at 122 deg F	Kinematic Viscosity @ 122°F	452.0	cSt
D2161	Saybolt Furol Viscosity @ 122 °F	213.3	SFS
D97	Pour Point	-6	deg C
D97	Pour Point	21	deg F
D4294	Sulfur	1.43	Wt %
D1796	Sediment and Water	0.1	Vol %
D95	Water	0.2	Vol %
D482 @ 775 deg C	Ash @ 775 deg C	0.037	Wt %
D5708 Method A	Sodium	10.3	mg / kg
D5708 Method A	Vanadium	105	mg / kg
D240	Gross Heat of Combustion	18360	BTU / lb
D240	Gross Heat of Combustion	151947	BTU / gal
D3279	Asphaltene / n-Heptane Insolubles	5.76	Wt %
D4530	Micro Carbon Residue	14.0	Wt %
D5762	Nitrogen	0.45	Wt %
D473	Sediment by Extraction	0.03	Wt %